BRUHAT BANGALORE MAHANAGARA PALIKE

Dasarahalli Zone

Draft Tender Schedule(DTS)

Name of work: Restoration and Improvements of roads and drains in A Y R Layout, Shettihalli village, RR Layout of Chikkasandra village and Abbigere village roads,BTS Village,Vishveshwaraiah village,Royal Enclave and Sidedahalli Old village roads dugged by BWSSB to lay water supply and UGD lines under 110 villages in ward no.12 &14 Shettihalli.

Notification Number

Tender form issued to Sri..... Class Registration number.....

Sl No	Description of Work	Unit	Quantity as per Estimate	Rates in Rs.		Amount in Rs.
				In Figures	In Words	
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3)	Sqm	32740.92	111.30	Rupees One Hundred Eleven And Paise Thirty Only	3644064.40
2	Earthwork excavation by manual means for roads, drains & similar works in in hard soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.	Cum	36505.84	225.52	Rupees Two Hundred Twenty Five And Paise Fifty Two Only	8232797.04
3	Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	52.65	5619.79	Rupees Five Thousand Six Hundred Nineteen And Paise Seventy Nine Only	295882.13
4	Providing TMT Bars Fe 500 steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200	T	9.76	80146.60	Rupees Eighty Thousand One Hundred Forty Six And Paise Sixty Only	782230.82
5	Providing and laying plain/reinforced cement concrete for side drains Wall & bottom thickness 15cm using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500,1700, 2200. including cost of materials, labour, HOM complete as per specifications.	Cum	121.97	7422.99	Rupees Seven Thousand Four Hundred Twenty Two And Paise Ninety Nine Only	905381.99
6	Providing and laying Pre Cast Drain Cover slabs of 230mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)	Sqm	292.50	4486.00	Rupees Four Thousand Four Hundred Eighty Six Only	1312155.00
7	Providing granite slabs 7.5cms Thick of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.	Sqm	7316.73	742.00	Rupees Seven Hundred Forty Two Only	5429013.66
8	Providing and Fixing Pre cast covering Slab 100mm thick made out of CC, jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge.	Sqm	868.50	1922.00	Rupees One Thousand Nine Hundred Twenty Two Only	1669257.00
9	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by mechanical means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as per specifications. Unloading and Lead for Disposal	Sqm	67098.90	41.34	Rupees Forty One And Paise Thirty Four Only	2773868.53

	Leading charges for Scarified quantity	cum	5367.91	30.72	Rupees Thirty And Paise Seventy Two Only	164902.20
10	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceablandun serviceable materialsseperately complete as per specifications.	cum	320.35	985.50	Rupees Nine Hundred Eighty Five And Paise Fifty Only	315705.95
11	Providing and filling Stone Dust in foundation to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications.	Cum	4324.16	1317.43	Rupees One Thousand Three Hundred Seventeen And Paise Forty Three Only	5696778.11
12	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1,4.2	cum	1120.65	5505.64	Rupees Five Thousand Five Hundred Five And Paise Sixty Four Only	6169895.47
13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, soparation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials,	Cum	1680.98	5634.31	Rupees Five Thousand Six Hundred Thirty Four And Paise Thirty One Only	9471162.42
14	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregatesof granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.Clause 401 of MORTH V Revision..	Cum.	10121.84	1994.92	Rupees One Thousand Nine Hundred Ninety Four And Paise Ninety Two Only	20192261.05
15	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406	Cum	17881.85	2001.28	Rupees Two Thousand One And Paise Twenty Eight Only	35786588.77
16	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Clause 501 of MORTH V revision	Sqm	15040.00	5.30	Rupees Five And Paise Thirty Only	79712.00
17	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.Clause 502 of MORTH V revision	Sqm	71372.45	33.92	Rupees Thirty Three And Paise Ninety Two Only	2420953.50

18	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and ialignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revision do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	3568.62	7292.80	**Rupees Seven Thousand Two Hundred Ninety Two And Paise Eighty Only**	**26025231.94**
19	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.	Sqm	82518.90	12.72	**Rupees Twelve And Paise Seventy Two Only**	**1049640.41**
20	Providing and laying bituminous concrete 40mm thick with hot mix plant,do - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.	Cum	2752.25	8450.32	**Rupees Eight Thousand Four Hundred Fifty And Paise Thirty Two Only**	**23257393.22**
21	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803	Sqm	3700.20	454.74	**Rupees Four Hundred Fifty Four And Paise Seventy Four Only**	**1682628.95**
22	Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)	No	635.00	357.22	**Rupees Three Hundred Fifty Seven And Paise Twenty Two Only**	**226834.70**
					Total Construction Cost	**1575,84,339.26**

DTS Approved

Executive Engineer
Dasarahalli
BBMP - Bangalore

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